

Leakage Detection IC for Automotive

BD9582F-M



The industry's first ultra-low power consumption leakage detection IC for automotive applications

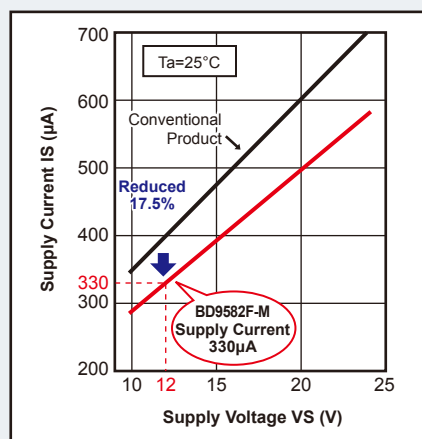
Product Outline

In recent years, with the proliferation of hybrid and electric vehicles comes an increase in the number of AC outlets installed that support high power consumption consumer equipment and which are expected to be used as emergency power sources during unforeseen events such as disasters. ROHM's BD9582F-M represents the first* automotive-grade (AEC-Q100-compliant) leakage detection IC compatible with high temperature operation up to 105°C, making it ideal for use in AC inverters and other equipment in HEVs and EVs. In addition, industry-low current consumption contributes to significantly longer battery life.

*ROHM April 2013 survey

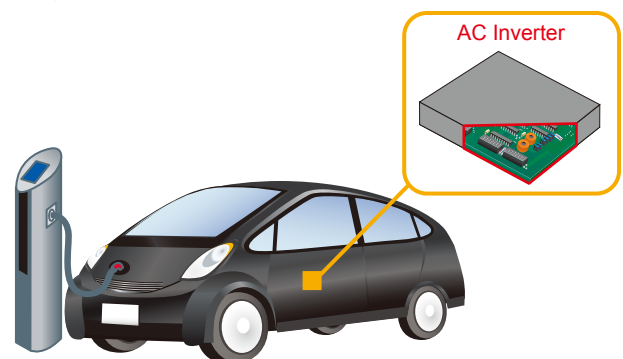
Industry-low current consumption

Features the lowest current consumption in the industry at 330 μ A (typ.), significantly reducing battery consumption in continuously operating earth leakage circuit breakers and ground fault interrupters.



Application example

Ideal for AC inverters and chargers in electric and hybrid vehicles. Also suitable for general-purpose ground fault interrupters, earth leakage circuit breakers, and leakage relays.



Lineup

Package	Part No.	Operating Temp. (°C)	Supply Voltage (V)	Supply Current (µA)	Trip Voltage* ¹ (mV)	Detection Method (Wave)	RoHS Compliant	Automotive-Grade (AEC-Q100 ² -compliant)
SOP8 <i>New</i>	BD9582F-M	-40 to 105	12 to 22	330	7.5	0.5	Yes	Yes
SOP8	BD9582F	-20 to 95	12 to 22	330	7.5	0.5	Yes	—
SIP8	BD9582N	-20 to 95	12 to 22	330	7.5	0.5	Yes	—
SOP8	BD9584F	-20 to 95	8 to 22	250	9.2	1.0	Yes	—

*1: The voltage at which the IC determines a leakage detection event has occurred

*2: A quality standard that defines stress testing for automotive certification of ICs

The content specified herein is for the purpose of introducing ROHM's products (hereinafter "Products"). If you wish to use any such Product, please be sure to refer to the specifications, which can be obtained from ROHM upon request. Great care was taken in ensuring the accuracy of the information specified in this document. However, should you incur any damage arising from any inaccuracy or misprint of such information, ROHM shall bear no responsibility for such damage. The technical information specified herein is intended only to show the typical functions of and examples of application circuits for the Products. ROHM does not grant you, explicitly or implicitly, any license to use or exercise intellectual property or other rights held by ROHM and other parties. ROHM shall bear no responsibility whatsoever for any dispute arising from the use of such technical information. If you intend to export or ship overseas any Product or technology specified herein that may be controlled under the Foreign Exchange and the Foreign Trade Law, you will be required to obtain a license or permit under the Law.

The content specified in this document is correct as of 11th April, 2013.

ROHM Co., Ltd.

21 Saini Mizosaki-cho, Ukyo-ku,
Kyoto 615-8585 Japan
TEL: +81-75-311-2121
www.rohm.com

